GenCore version 4.5

OM protein - protein search, using sw model

Run on: September 4, 2002, 16:09:16 ; Search time 165.17 Seconds
(without alignments)
34.297 Million cell updates/sec

Title: US-09-052-089A-6
Perfect score: 293
Sequence: 1 LSLCTICSDFFDHSRDVAAI.....IQWFETAPSRTCPQCRIQVG 51

Scoring table: BLOSUM62
Gapop 10.0 , Gapext 0.5

Searched: 747574 seqs, 111073796 residues

Total number of hits satisfying chosen parameters: 747574

Minimum DB seq length: 0
Maximum DB seq length: 2000000000

Post-processing: Minimum Match 0%
Maximum Match 100%
Listing first 45 summaries

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Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

SUMMARIES

Result No.	Score	% Query Match	Length	DB	ID	Description
1	286	97.6	469	19	AAW37881	BRCA1 modulator pr
2	286	97.6	469	20	AAY30149	Amino acid sequenc
3	128	43.7	455	22	ABB61289	Drosophila melanog
4	127	43.3	225	22	AAE03224	Human gene 5 encod
5	127	43.3	359	22	AAE03206	Human gene 5 encod
6	123	42.0	158	22	ABB60559	Drosophila melanog
7	113	38.6	309	21	AAG23048	Arabidopsis thalia
8	113	38.6	309	21	AAG51101	Arabidopsis thalia
9	113	38.6	328	21	AAG23047	Arabidopsis thalia
10	113	38.6	328	21	AAG51100	Arabidopsis thalia
11	113	38.6	358	21	AAG23046	Arabidopsis thalia
12	113	38.6	358	21	AAG51099	Arabidopsis thalia
13	112	38.2	291	21	AAG44448	Arabidopsis thalia
14	112	38.2	344	21	AAG29289	Arabidopsis thalia
15	112	38.2	348	21	AAG29288	Arabidopsis thalia
16	112	38.2	356	21	AAG29287	Arabidopsis thalia
17	112	38.2	368	21	AAG44447	Arabidopsis thalia
18	112	38.2	410	21	AAG44446	Arabidopsis thalia
19	112	38.2	621	22	ABB58678	Drosophila melanog
20	111	37.9	296	21	AAG13718	Arabidopsis thalia
21	111	37.9	296	21	AAG50322	Arabidopsis thalia
22	111	37.9	325	21	AAG13717	Arabidopsis thalia
23	111	37.9	325	21	AAG50321	Arabidopsis thalia
24	111	37.9	362	21	AAG13716	Arabidopsis thalia
25	111	37.9	362	21	AAG50320	Arabidopsis thalia
26	107	36.5	51	22	AAU02003	Human secreted pro
27	107	36.5	350	22	ABB50167	Human transcriptio
28	107	36.5	551	18	AAW27150	HMG-CoA reductase
29	106	36.2	316	21	AAG38657	Arabidopsis thalia
30	106	36.2	346	21	AAG37253	Arabidopsis thalia
31	106	36.2	349	21	AAG38656	Arabidopsis thalia
32	106	36.2	351	21	AAG08030	Arabidopsis thalia
33	106	36.2	364	21	AAG37252	Arabidopsis thalia
34	106	36.2	367	21	AAG38655	Arabidopsis thalia
35	106	36.2	369	21	AAG08029	Arabidopsis thalia
36	106	36.2	380	21	AAG37251	Arabidopsis thalia
37	106	36.2	386	21	AAG08028	Arabidopsis thalia
38	106	36.2	405	22	AAB36644	Oryza sativa var.
39	105	35.8	83	21	AAG32709	Zea mays protein f
40	105	35.8	93	21	AAG32708	Zea mays protein f
41	105	35.8	154	21	AAG32707	Zea mays protein f
42	105	35.8	1256	22	ABB62798	Drosophila melanog
43	104	35.5	330	21	AAG29181	Arabidopsis thalia
44	104	35.5	339	21	AAG29180	Arabidopsis thalia
45	104	35.5	351	21	AAG29179	Arabidopsis thalia

ALIGNMENTS

RESULT 1
AAW37881
ID AAW37881 standard; Protein; 469 AA.
XX
AC AAW37881;
XX
DT 28-AUG-1998 (first entry)
XX
DE BRCA1 modulator protein 091-21A31.
XX
KW BRCA1 modulator protein; 091-21A31; breast cancer antigen 1;
KW tumour suppressor protein; diagnosis; therapy; human.
XX
OS Homo sapiens.
XX
FH Key Location/Qualifiers
FT Domain 3..54
FT /note= "zinc finger motif"
FT Domain 229..255
FT /note= "leucine zipper motif"
XX
PN WO9810066-A1.
XX
PD 12-MAR-1998.
XX
PF 06-AUG-1997; 97WO-US13944.
XX
PR 04-SEP-1996; 96US-0025601.
XX
PA (ONYX-) ONYX PHARM INC.
XX
PI Ligenfelter C, Polakis P, Rubinfeld B, Vuong TT;
XX
DR WPI; 1998-193616/17.

DR N-PSDB; AAV29062.
XX
PT Breast cancer antigen 1 modulator protein - useful for diagnosing
PT diseases involving unwanted cell growth, e.g. breast cancer, and for
PT producing therapeutics for treatment of such diseases
XX
PS Example 1; Fig 1; 73pp; English.
XX
CC This polypeptide comprises a 53 kDa BRCA1 modulator protein that
CC binds to the tumour suppressor gene product BRC1, and which is
CC characterised by a zinc finger domain and a leucine zipper motif.
CC Its amino acid sequence was deduced from the nucleotide sequence
CC of a cDNA clone (see AAV29062), designated 091-21A31 (ATCC 98141),
CC isolated from a HeLa cell cDNA library using a yeast two-hybrid
CC assay. 3 cDNA clones (see also AAV29063-64) coding for BRCA1
CC modulator proteins (see AAW37881-83) have been characterised. Vectors
CC and host cells comprising the isolated nucleic acid sequences are
CC claimed, as well as a process for producing BRCA1 modulator protein
CC by culturing these host cells. BRCA1 modulator proteins and nucleic
CC acids can be used to diagnose diseases involving unwanted cell
CC growth, e.g. breast cancer, and to identify compounds that alter
CC BRCA1 interaction with BRCA1 modulators for the treatment of such
CC diseases.
XX
SQ Sequence 469 AA;

Query Match 97.6%; Score 286; DB 19; Length 469;
Best Local Similarity 98.0%; Pred. No. 7e-28;
Matches 49; Conservative 1; Mismatches 0; Indels 0; Gaps 0;

Qy 2 SLCTICSDFFDHSRDVAAIHCGHTFHLQCLIQWFETAPSRTCPQCRIQVG 51
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Db 5 alcticsdffdhsrdvaaihcghtfhlqcliqwfetapsrtcpqcriqvg 54

RESULT 2
AAY30149
ID AAY30149 standard; Protein; 469 AA.
XX
AC AAY30149;
XX
DT 27-OCT-1999 (first entry)
XX
DE Amino acid sequence of a BRCA1 modulator protein.
XX
KW Modulator protein; BRCA1; tumour suppressor protein; breast cancer;
KW ovarian cancer; cell growth; cell proliferation.
XX
OS Homo sapiens.
XX
FH Key Location/Qualifiers
FT Region 3..32
FT /note= "zinc finger motif"
FT Region 230..255
FT /note= "leucine zipper motif"
XX
PN US5948643-A.
XX
PD 07-SEP-1999.
XX
PF 13-AUG-1997; 97US-0968751.
XX
PR 13-AUG-1997; 97US-0968751.
XX
PA (ONYX-) ONYX PHARM INC.
XX
PI Lingenfelter C, Polakis PG, Rubinfeld B, Vuong TT;
XX
DR WPI; 1999-517952/43.
DR N-PSDB; AAX86754.
XX
PT Modulator proteins that bind to and modulate the activity of the
PT BRCA1 tumour suppressor gene product, useful for the treatment of
PT ovarian and breast cancer
XX
PS Example 1; Fig 1; 35pp; English.
XX
CC The present sequence represents a modulator protein, that binds to and
CC modulate the activity of the BRCA1 gene product (BRCA1). The BRCA1
CC protein has been characterized as a tumour suppressor protein.
CC Alterations in the amino acid sequence of BRCA1 causes breast and ovarian
CC cancers by removing the controls on cell growth and proliferation.
CC Research has shown that different regions on the BRCA1 molecule have
CC different effects on cell growth and tumour suppression (e.g. full length
CC truncated BRCA1 has no effect on breast cancer cell growth but will
CC inhibit ovarian cancer cell growth). It has been suggested that different
CC host cell factors (e.g. proteins) interact with different regions of the
CC BRCA1 to control its function. The identification of these proteins
CC (e.g. BRCA1MP) will facilitate the development of novel diagnostic
CC methods and new therapeutics for identifying and treating cancers caused
CC by changes in the expression or activity of BRCA1.
XX
SQ Sequence 469 AA;

Query Match 97.6%; Score 286; DB 20; Length 469;
Best Local Similarity 98.0%; Pred. No. 7e-28;
Matches 49; Conservative 1; Mismatches 0; Indels 0; Gaps 0;

Qy 2 SLCTICSDFFDHSRDVAAIHCGHTFHLQCLIQWFETAPSRTCPQCRIQVG 51
:||||||||||||||||||||||||||||||||||||||||||||||||||
Db 5 alcticsdffdhsrdvaaihcghtfhlqcliqwfetapsrtcpqcriqvg 54

RESULT 3
ABB61289
ID ABB61289 standard; Protein; 455 AA.
XX
AC ABB61289;
XX
DT 26-MAR-2002 (first entry)
XX
DE Drosophila melanogaster polypeptide SEQ ID NO 10659.
XX
KW Drosophila; developmental biology; cell signalling; insecticide;
KW pharmaceutical.
XX
OS Drosophila melanogaster.
XX
PN WO200171042-A2.
XX
PD 27-SEP-2001.
XX
PF 23-MAR-2001; 2001WO-US09231.
XX
PR 23-MAR-2000; 2000US-191637P.
PR 11-JUL-2000; 2000US-0614150.
XX
PA (PEKE) PE CORP NY.
XX
PI Venter JC, Adams M, Li PWD, Myers EW;
XX
DR WPI; 2001-656860/75.
DR N-PSDB; ABL05392.
XX
PT New isolated nucleic acid detection reagent for detecting 1000 or more
PT genes from Drosophila and for elucidating cell signalling and cell-cell
PT interactions -
XX
PS Disclosure; SEQ ID NO 10659; 21pp + Sequence Listing; English.
XX
CC The invention relates to an isolated nucleic acid detection reagent
CC capable of detecting 1000 or more genes from Drosophila. The invention is
CC useful in developmental biology and in elucidating cell signalling and
CC cell-cell interactions in higher eukaryotes for the development of

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CC   insecticides, therapeutics and pharmaceutical drugs. The invention
CC   discloses genomic DNA sequences (ABL16176-ABL30511), expressed DNA
CC   sequences (ABL01840-ABL16175) and the encoded proteins
CC   (ABB57737-ABB72072).
CC   The sequence data for this patent did not form part of the printed
CC   specification, but was obtained in electronic format directly from WIPO
CC   at ftp.wipo.int/pub/published_pct_sequences.
XX
SQ   Sequence   455 AA;


  Query Match             43.7%;  Score 128;  DB 22;  Length 455;
  Best Local Similarity   50.0%;  Pred. No. 5.5e-08;
  Matches   22;  Conservative    6;  Mismatches   14;  Indels    2;  Gaps    1;

Qy       4 CTICSDFFDHSRDVAAIHCGHTFHLQCLIQWFETAPSRTCPQCR 47
           | ||:: |  : :| |  ||| ||  || || :   |:||||||
Db       6 cvicaelfgqadevfatvcghmfhhnclnqwldr--sktcpqcr 47


RESULT   4
AAE03224
ID   AAE03224 standard; Protein; 225 AA.
XX
AC   AAE03224;
XX
DT   10-AUG-2001  (first entry)
XX
DE   Human gene 5 encoded secreted protein HTLJF15, SEQ ID NO:74.
XX
KW   Human; secreted protein; proliferative disorder; cancer; tumour; asthma;
KW   foetal abnormality; developmental abnormality; haematopoietic disorder;
KW   immune system disorder; AIDS; autoimmune disease; rheumatoid arthritis;
KW   Parkinson's disease; cognitive disorder; schizophrenia; skin disorder;
KW   psoriasis; sepsis; diabetes; atherosclerosis; cardiovascular disorder;
KW   inflammation; neurological disorder; Alzheimer's disease; food additive;
KW   angiogenic disorder; kidney disorder; gastrointestinal disorder; allergy;
KW   pregnancy-related disorder; endocrine disorder; infection; wound healing;
KW   cell culture; chemotaxis; vulnerary; binding partner identification;
KW   gene therapy.
XX
OS   Homo sapiens.
XX
FH   Key             Location/Qualifiers
FT   Peptide         1
FT                   /label= Signal_peptide
FT   Protein         2..225
FT                   /label= Mature_human_secreted_protein
FT   Misc-difference 21
FT                   /label= Unknown
FT                   /note= "Encoded by GNC on the inverse complementary
FT                   strand of the cDNA sequence (AAD07677)"
FT   Misc-difference 45
FT                   /label= Unknown
FT                   /note= "Encoded by TGM on the inverse complementary
FT                   strand of the cDNA sequence (AAD07677)"
XX
PN   WO200134644-A1.
XX
PD   17-MAY-2001.
XX
PF   08-NOV-2000; 2000WO-US30679.
XX
PR   12-NOV-1999;   99US-0164834.
PR   04-AUG-2000; 2000US-0224007.
XX
PA   (HUMA-) HUMAN GENOME SCI INC.
XX
PI   Ruben SM,  Komatsoulis GA,  Olsen HS,  Duan RD,  Ebner R;
XX
DR   WPI; 2001-329070/34.
DR   N-PSDB; AAD07677.
XX
PT   Isolated nucleic acid molecule encoding a human secreted protein is
PT   used in preventing, treating or ameliorating a medical condition  -
XX
PS   Claim 11; Page 450; 499pp; English.
XX
CC   AAD07655-AAD07695 represent cDNAs corresponding to 15 human secreted
CC   protein genes, and AAE03202-AAE03242 represent the proteins they encode.
CC   AAE03243-AAE03280 represent human secreted protein fragments or variants.
CC   The secreted proteins and their genes are useful for preventing, treating
CC   or ameliorating medical conditions, e.g., by protein or gene therapy.
CC   Pathological conditions can be diagnosed by determining the amount of the
CC   new protein in a sample or by determining the presence of mutations in
CC   the new genes. Specific uses are described for each of the 15 genes,
CC   based on the tissues in which they are most highly expressed, and include
CC   developing products for the diagnosis or treatment of proliferative
CC   disorders, cancer, tumours, foetal and developmental abnormalities,
CC   haematopoietic disorders, diseases of the immune system, AIDS, autoimmune
CC   diseases (e.g., rheumatoid arthritis), inflammation, allergies,
CC   neurological disorders (e.g., Alzheimer's disease, Parkinson's disease),
CC   cognitive disorders, schizophrenia, asthma, skin disorders (e.g.,
CC   psoriasis), sepsis, diabetes, atherosclerosis, cardiovascular disorders,
CC   angiogenic disorders, kidney disorders, gastrointestinal disorders,
CC   pregnancy-related disorders, endocrine disorders, and infections. The
CC   proteins can also be used to aid wound healing and epithelial cell
CC   proliferation, to prevent skin aging due to sunburn, to maintain organs
CC   before transplantation, for supporting cell culture of primary tissues,
CC   to regenerate tissues, to identify their cognate ligands or binding
CC   partners, and in chemotaxis, and can be used as a food additive or
CC   preservative to modify storage properties. Antibodies specific for a
CC   protein of the invention can be used in alleviating symptoms associated
CC   with the disorders mentioned above, and in diagnostic immunoassays e.g.,
CC   radioimmunoassay or enzyme linked immunosorbent assay (ELISA).
CC   The present sequence represents a human secreted protein of
CC   the invention.
XX
SQ   Sequence   225 AA;


  Query Match             43.3%;  Score 127;  DB 22;  Length 225;
  Best Local Similarity   39.6%;  Pred. No. 3.5e-08;
  Matches   19;  Conservative    9;  Mismatches   20;  Indels    0;  Gaps    0;

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Db      70 lcaicldeyeegdqlkilpcshtyhckcidpwfsqaprrscpvckqsv 117


RESULT   5
AAE03206
ID   AAE03206 standard; Protein; 359 AA.
XX
AC   AAE03206;
XX
DT   10-AUG-2001  (first entry)
XX
DE   Human gene 5 encoded secreted protein HTLJF15, SEQ ID NO:56.
XX
KW   Human; secreted protein; proliferative disorder; cancer; tumour; asthma;
KW   foetal abnormality; developmental abnormality; haematopoietic disorder;
KW   immune system disorder; AIDS; autoimmune disease; rheumatoid arthritis;
KW   Parkinson's disease; cognitive disorder; schizophrenia; skin disorder;
KW   psoriasis; sepsis; diabetes; atherosclerosis; cardiovascular disorder;
KW   inflammation; neurological disorder; Alzheimer's disease; food additive;
KW   angiogenic disorder; kidney disorder; gastrointestinal disorder; allergy;
KW   pregnancy-related disorder; endocrine disorder; infection; wound healing;
KW   cell culture; chemotaxis; vulnerary; binding partner identification;
KW   gene therapy.
XX
OS   Homo sapiens.
XX
FH   Key             Location/Qualifiers
FT   Peptide         1..28
FT                   /label= Signal_peptide
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FT   Protein         29..359
FT                   /label= Mature_human_secreted_protein
XX
PN   WO200134644-A1.
XX
PD   17-MAY-2001.
XX
PF   08-NOV-2000; 2000WO-US30679.
XX
PR   12-NOV-1999;   99US-0164834.
PR   04-AUG-2000; 2000US-0224007.
XX
PA   (HUMA-) HUMAN GENOME SCI INC.
XX
PI   Ruben SM,  Komatsoulis GA,  Olsen HS,  Duan RD,  Ebner R;
XX
DR   WPI; 2001-329070/34.
DR   N-PSDB; AAD07659.
XX
PT   Isolated nucleic acid molecule encoding a human secreted protein is
PT   used in preventing, treating or ameliorating a medical condition  -
XX
PS   Claim 11; Page 431-432; 499pp; English.
XX
CC   AAD07655-AAD07695 represent cDNAs corresponding to 15 human secreted
CC   protein genes, and AAE03202-AAE03242 represent the proteins they encode.
CC   AAE03243-AAE03280 represent human secreted protein fragments or variants.
CC   The secreted proteins and their genes are useful for preventing, treating
CC   or ameliorating medical conditions, e.g., by protein or gene therapy.
CC   Pathological conditions can be diagnosed by determining the amount of the
CC   new protein in a sample or by determining the presence of mutations in
CC   the new genes. Specific uses are described for each of the 15 genes,
CC   based on the tissues in which they are most highly expressed, and include
CC   developing products for the diagnosis or treatment of proliferative
CC   disorders, cancer, tumours, foetal and developmental abnormalities,
CC   haematopoietic disorders, diseases of the immune system, AIDS, autoimmune
CC   diseases (e.g., rheumatoid arthritis), inflammation, allergies,
CC   neurological disorders (e.g., Alzheimer's disease, Parkinson's disease),
CC   cognitive disorders, schizophrenia, asthma, skin disorders (e.g.,
CC   psoriasis), sepsis, diabetes, atherosclerosis, cardiovascular disorders,
CC   angiogenic disorders, kidney disorders, gastrointestinal disorders,
CC   pregnancy-related disorders, endocrine disorders, and infections. The
CC   proteins can also be used to aid wound healing and epithelial cell
CC   proliferation, to prevent skin aging due to sunburn, to maintain organs
CC   before transplantation, for supporting cell culture of primary tissues,
CC   to regenerate tissues, to identify their cognate ligands or binding
CC   partners, and in chemotaxis, and can be used as a food additive or
CC   preservative to modify storage properties. Antibodies specific for a
CC   protein of the invention can be used in alleviating symptoms associated
CC   with the disorders mentioned above, and in diagnostic immunoassays e.g.,
CC   radioimmunoassay or enzyme linked immunosorbent assay (ELISA).
CC   The present sequence represents a human secreted protein of
CC   the invention.
XX
SQ   Sequence   359 AA;


  Query Match             43.3%;  Score 127;  DB 22;  Length 359;
  Best Local Similarity   39.6%;  Pred. No. 5.7e-08;
  Matches   19;  Conservative    9;  Mismatches   20;  Indels    0;  Gaps    0;

Qy       3 LCTICSDFFDHSRDVAAIHCGHTFHLQCLIQWFETAPSRTCPQCRIQV 50
           || || | ::    :  : | ||:| :|:  ||  || |:|| |:  |
Db     238 lcaicldeyeegdqlkilpcshtyhckcidpwfsqaprrscpvckqsv 285


RESULT   6
ABB60559
ID   ABB60559 standard; Protein; 158 AA.
XX
AC   ABB60559;
XX
DT   26-MAR-2002  (first entry)
XX
DE   Drosophila melanogaster polypeptide SEQ ID NO 8469.
XX
KW   Drosophila; developmental biology; cell signalling; insecticide;
KW   pharmaceutical.
XX
OS   Drosophila melanogaster.
XX
PN   WO200171042-A2.
XX
PD   27-SEP-2001.
XX
PF   23-MAR-2001; 2001WO-US09231.
XX
PR   23-MAR-2000; 2000US-191637P.
PR   11-JUL-2000; 2000US-0614150.
XX
PA   (PEKE ) PE CORP NY.
XX
PI   Venter JC,  Adams M,  Li PWD,  Myers EW;
XX
DR   WPI; 2001-656860/75.
DR   N-PSDB; ABL04662.
XX
PT   New isolated nucleic acid detection reagent for detecting 1000 or more
PT   genes from Drosophila and for elucidating cell signalling and cell-cell
PT   interactions -
XX
PS   Disclosure; SEQ ID NO 8469; 21pp + Sequence Listing; English.
XX
CC   The invention relates to an isolated nucleic acid detection reagent
CC   capable of detecting 1000 or more genes from Drosophila. The invention is
CC   useful in developmental biology and in elucidating cell signalling and
CC   cell-cell interactions in higher eukaryotes for the development of
CC   insecticides, therapeutics and pharmaceutical drugs. The invention
CC   discloses genomic DNA sequences (ABL16176-ABL30511), expressed DNA
CC   sequences (ABL01840-ABL16175) and the encoded proteins
CC   (ABB57737-ABB72072).
CC   The sequence data for this patent did not form part of the printed
CC   specification, but was obtained in electronic format directly from WIPO
CC   at ftp.wipo.int/pub/published_pct_sequences.
XX
SQ   Sequence   158 AA;


  Query Match             42.0%;  Score 123;  DB 22;  Length 158;
  Best Local Similarity   51.1%;  Pred. No. 7.6e-08;
  Matches   24;  Conservative    4;  Mismatches   17;  Indels    2;  Gaps    1;

Qy       3 LCTICSDFFDHSRDVAAIHCGHTFHLQCLIQWFETAPSRTCPQCRIQ 49
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Db       7 icticserfrtsdniqagscghafhedcldhw--rkqsrtcpicrsq 51


RESULT   7
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ID   AAG23048 standard; Protein; 309 AA.
XX
AC   AAG23048;
XX
DT   17-OCT-2000  (first entry)
XX
DE   Arabidopsis thaliana protein fragment SEQ ID NO: 26208.
XX
KW   Protein identification; signal transduction pathway; metabolic pathway;
KW   hybridisation assay; genetic mapping; gene expression control; promoter;
KW   termination sequence.
XX
OS   Arabidopsis thaliana.
XX
PN   EP1033405-A2.
XX
PD   06-SEP-2000.
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XX
PF 25-FEB-2000; 2000EP-0301439.
XX
PR 25-FEB-1999; 99US-0121825.
PR 05-MAR-1999; 99US-0123180.
PR 09-MAR-1999; 99US-0123548.
PR 23-MAR-1999; 99US-0125788.
PR 25-MAR-1999; 99US-0126264.
PR 29-MAR-1999; 99US-0126785.
PR 01-APR-1999; 99US-0127462.
PR 06-APR-1999; 99US-0128234.
PR 08-APR-1999; 99US-0128714.
PR 16-APR-1999; 99US-0129845.
PR 19-APR-1999; 99US-0130077.
PR 21-APR-1999; 99US-0130449.
PR 23-APR-1999; 99US-0130510.
PR 23-APR-1999; 99US-0130891.
PR 28-APR-1999; 99US-0131449.
PR 30-APR-1999; 99US-0132048.
PR 30-APR-1999; 99US-0132407.
PR 04-MAY-1999; 99US-0132484.
PR 05-MAY-1999; 99US-0132485.
PR 06-MAY-1999; 99US-0132486.
PR 06-MAY-1999; 99US-0132487.
PR 07-MAY-1999; 99US-0132863.
PR 11-MAY-1999; 99US-0134256.
PR 14-MAY-1999; 99US-0134218.
PR 14-MAY-1999; 99US-0134219.
PR 14-MAY-1999; 99US-0134221.
PR 14-MAY-1999; 99US-0134370.
PR 18-MAY-1999; 99US-0134768.
PR 19-MAY-1999; 99US-0134941.
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DT 18-OCT-2000 (first entry)
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DE Arabidopsis thaliana protein fragment SEQ ID NO: 64820.
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KW Protein identification; signal transduction pathway; metabolic pathway;
KW hybridisation assay; genetic mapping; gene expression control; promoter;
KW termination sequence.
XX
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XX
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KW Protein identification; signal transduction pathway; metabolic pathway;
KW hybridisation assay; genetic mapping; gene expression control; promoter;
KW termination sequence.
XX
OS Arabidopsis thaliana.
XX
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XX
KW   Protein identification; signal transduction pathway; metabolic pathway;
KW   hybridisation assay; genetic mapping; gene expression control; promoter;
KW   termination sequence.
XX
OS   Arabidopsis thaliana.
XX
PN   EP1033405-A2.
XX
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PI   Venter JC,  Adams M,  Li PWD,  Myers EW;
XX
DR   WPI; 2001-656860/75.
DR   N-PSDB; ABL02781.
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PT   New isolated nucleic acid detection reagent for detecting 1000 or more
PT   genes from Drosophila and for elucidating cell signalling and cell-cell
PT   interactions -
XX
PS   Disclosure; SEQ ID NO 2826; 21pp + Sequence Listing; English.
XX
CC   The invention relates to an isolated nucleic acid detection reagent
CC   capable of detecting 1000 or more genes from Drosophila. The invention is
CC   useful in developmental biology and in elucidating cell signalling and
CC   cell-cell interactions in higher eukaryotes for the development of
CC   insecticides, therapeutics and pharmaceutical drugs. The invention
CC   discloses genomic DNA sequences (ABL16176-ABL30511), expressed DNA
CC   sequences (ABL01840-ABL16175) and the encoded proteins
CC   (ABB57737-ABB72072).
CC   The sequence data for this patent did not form part of the printed
CC   specification, but was obtained in electronic format directly from WIPO
CC   at ftp.wipo.int/pub/published_pct_sequences.
XX
SQ   Sequence   621 AA;


  Query Match             38.2%;  Score 112;  DB 22;  Length 621;
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DT   17-OCT-2000  (first entry)
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KW   Protein identification; signal transduction pathway; metabolic pathway;
KW   hybridisation assay; genetic mapping; gene expression control; promoter;
KW   termination sequence.
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OS   Arabidopsis thaliana.
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PN   EP1033405-A2.
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PF   25-FEB-2000; 2000EP-0301439.
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PR   29-MAR-1999;   99US-0126785.
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PR   06-APR-1999;   99US-0128234.
PR   08-APR-1999;   99US-0128714.
PR   16-APR-1999;   99US-0129845.
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PR   21-APR-1999;   99US-0130449.
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PR   23-APR-1999;   99US-0130891.
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Query Match 37.9%; Score 111; DB 21; Length 296;
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DT 18-OCT-2000 (first entry)
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XX
KW Protein identification; signal transduction pathway; metabolic pathway;
KW hybridisation assay; genetic mapping; gene expression control; promoter;
KW termination sequence.
XX
OS Arabidopsis thaliana.
XX
PN EP1033405-A2.
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PD 06-SEP-2000.
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PF 25-FEB-2000; 2000EP-0301439.
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Query Match 37.9%; Score 111; DB 21; Length 296;
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Matches 19; Conservative 10; Mismatches 16; Indels 2; Gaps 1;

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DT 17-OCT-2000 (first entry)
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KW hybridisation assay; genetic mapping; gene expression control; promoter;
KW termination sequence.
XX
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XX
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PD 06-SEP-2000.
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PF 25-FEB-2000; 2000EP-0301439.
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Query Match 37.9%; Score 111; DB 21; Length 362;
Best Local Similarity 40.4%; Pred. No. 5.9e-06;
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RESULT 25
AAG50320
ID AAG50320 standard; Protein; 362 AA.
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AC AAG50320;
XX
DT 18-OCT-2000 (first entry)
XX
DE Arabidopsis thaliana protein fragment SEQ ID NO: 63755.
XX
KW Protein identification; signal transduction pathway; metabolic pathway;
KW hybridisation assay; genetic mapping; gene expression control; promoter;
KW termination sequence.
XX
OS Arabidopsis thaliana.
XX
PN EP1033405-A2.
XX
PD 06-SEP-2000.
XX
PF 25-FEB-2000; 2000EP-0301439.
XX
PR 25-FEB-1999; 99US-0121825.
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PR   29-OCT-1999;   99US-0162142.

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Db     312 cticleefnaggilvalpcghdfddecavkwfet--nhfcplcryel 356


RESULT  26
AAU02003
ID   AAU02003 standard; Protein; 51 AA.
XX
AC   AAU02003;
XX
DT   29-AUG-2001  (first entry)
XX
DE   Human secreted protein encoded by gene #33.
XX
KW   Human secreted protein; autoimmune disorder; hyperproliferative disorder;
KW   cardiovascular disorder; cerebrovascular disorder; angiogenesis;
KW   nervous system disorder; bacterial infection; viral infection;
KW   fungal infection; ocular disorder; wound healing; tissue regeneration;
KW   epithelial cell proliferation; skin ageing; chemotaxis; IgG Fc region.
XX
OS   Homo sapiens.
XX
PN   WO200123598-A1.
XX
PD   05-APR-2001.
XX
PF   26-SEP-2000; 2000WO-US26324.
XX
PR   27-SEP-1999;   99US-0155807.
XX
PA   (HUMA-) HUMAN GENOME SCI INC.
XX
PI   Komatsoulis G,  Ruben SM,  Rosen CA;
XX
DR   WPI; 2001-281684/29.
DR   N-PSDB; AAS03914.
XX
PT   Forty one nucleic acid molecules encoding human secreted proteins, useful
PT   in the prevention, treatment and diagnosis of cancer, immune disorders,
PT   cardiovascular disorders and neurological diseases -
XX
PS   Disclosure; Page 507; 518pp; English.
XX
CC   The sequence represents a human secreted protein encoded by a nucleic
CC   acid of the invention. Secreted proteins and their related nucleic acids
CC   can be used in the diagnosis of or susceptibility to a pathological
CC   condition by determining the presence or absence of a mutation in a
CC   nucleic acid or the presence or amount of expression of a secreted
CC   protein. The sequences are used to prevent, treat or ameliorate a medical
CC   condition in e.g. humans, mice, rabbits, goats, horses, cats, dogs,
CC   chickens or sheep. The antibodies to the polypeptides can also be used in
CC   alleviating symptoms associated with disorders and in diagnostic
CC   immunoassays e.g. radioimmunoassays or enzyme linked immunosorbent
CC   assays (ELISA). The disorders include autoimmune diseases e.g. rheumatoid
CC   arthritis, hyperproliferative disorders e.g. neoplasms of the breast or
CC   liver, cardiovascular disorders e.g. cardiac arrest, cerebrovascular
CC   disorders e.g. cerebral ischaemia, angiogenesis, nervous system disorders
CC   e.g. Alzheimer's disease, infections caused by bacteria, viruses and
CC   fungi and ocular disorders e.g. corneal infection. The peptides can also
CC   be used to aid wound healing and epithelial cell proliferation, to help
CC   prevent skin ageing due to sunburn, to maintain organs before
CC   transplantation, to regenerate tissues, in chemotaxis and as a food
CC   additive or preservative to alter storage capabilities.
XX
SQ   Sequence   51 AA;


  Query Match             36.5%;  Score 107;  DB 22;  Length 51;
  Best Local Similarity   38.3%;  Pred. No. 2.4e-06;
  Matches   18;  Conservative    7;  Mismatches   20;  Indels    2;  Gaps    1;

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Db       2 cticlsileegedvrrlpcmhlfhqvcvdqwlit--nkkcpicrvdi 46


RESULT  27
ABB50167
ID   ABB50167 standard; Protein; 350 AA.
XX
AC   ABB50167;
XX
DT   05-FEB-2002  (first entry)
XX
DE   Human transcription factor TRFX-18.
XX
KW   Human; transcription factor; TRFX; cell proliferative disease;
KW   autoimmune disease; inflammation; neurological disease;
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KW developmental disorder; cancer; AIDS; infection; cytostatic; anti-HIV;
KW neuroprotective; antiinflammatory; gene therapy.
XX
OS Homo sapiens.
XX
PN WO200172777-A2.
XX
PD 04-OCT-2001.
XX
PF 13-MAR-2001; 2001WO-US08117.
XX
PR 13-MAR-2000; 2000US-0188986.
XX
PA (INCY-) INCYTE GENOMICS INC.
XX
PI Hillman JL, Baughn MR, Yue H, Lal P, Lu DAM, Patterson C;
PI Azimzai Y, Bandman O, Tang YT, Mathur P, Shah P, Au-Young J;
PI Reddy R;
XX
DR WPI; 2001-570896/64.
DR N-PSDB; ABA82991.
XX
PT Novel transcription factor polypeptides, used to treat diseases
PT associated with altered activity and expression of TRFX, and to screen
PT for agents capable of modulating its activity -
XX
PS Claim 1; Pages 160-161; 327pp; English.
XX
CC The present sequence is the protein sequence for a human transcription
CC factor. The transcription factor and its coding sequence are useful in
CC the diagnosis, treatment and prevention of diseases associated with
CC altered expression of the transcription factor e.g. cell proliferative,
CC autoimmune/inflammatory, neurological and developmental disorders. A
CC number of specific disorders/diseases are given in the specification,
CC including: arteriosclerosis, cirrhosis, hepatitis, cancers, AIDS,
CC allergies, anaemia, asthma, autoimmune thyroiditis, bronchitis, atopic
CC dermatitis, diabetes mellitus, emphysema, Goodpasture's syndrome, gout,
CC Grave's disease, multiple sclerosis, osteoarthritis, pancreatitis,
CC psoriasis, rheumatoid arthritis, systemic lupus erythematosus, ulcerative
CC colitis, uveitis, Alzheimer's disease, Huntington's disease, Parkinson's
CC disease, stroke, and viral, bacterial, fungal and protozoal infections.
XX
SQ Sequence 350 AA;

Query Match 36.5%; Score 107; DB 22; Length 350;
Best Local Similarity 38.3%; Pred. No. 1.8e-05;
Matches 18; Conservative 7; Mismatches 20; Indels 2; Gaps 1;

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RESULT 28
AAW27150
ID AAW27150 standard; Protein; 551 AA.
XX
AC AAW27150;
XX
DT 08-DEC-1997 (first entry)
XX
DE HMG-CoA reductase degradation polypeptide 1 HRD1.
XX
KW 3-hydroxy-3-methylglutaryl; coenzyme A; cholesterol; Hrd1p; Hrd2p;
KW Hrd3p; hypercholesterolaemia; yeast.
XX
OS Saccharomyces cerevisiae.
XX
PN WO9707219-A2.
XX
PD 27-FEB-1997.
XX
PF 16-AUG-1996; 96WO-IB01161.
XX
PR 17-AUG-1995; 95US-0002381.
XX
PA (REGC) UNIV CALIFORNIA.
XX
PI Hampton R, Rine JD;
XX
DR WPI; 1997-165303/15.
DR N-PSDB; AAT85271.
XX
PT 3-Hydroxy-3-methyl:glutaryl CoA reductase degradation polypeptide(s)
PT - useful as therapeutic agents to reduce hypercholesterolaemia
XX
PS Claim 4; Fig 8A; 132pp; English.
XX
CC The present sequence represents the 3-hydroxy-3-methylglutaryl
CC (HMG)-CoA reductase degradation (HRD) protein Hrd1p. The HRD1 gene
CC encodes the Hrd1p protein. Hrd proteins can be used to regulate the
CC degradation of HMG-CoA reductase, e.g. as therapeutic agents to reduce
CC hypercholesterolaemia, and to elucidate how the cholesterol pathway
CC modulates the degradation of HMG-CoA reductase. In addition, as a result
CC of their ability to bind the proteasome complex, antibodies that
CC specifically bind Hrd polypeptides can be used to isolate the proteasome
CC complex. Further, they can be used in various assays to identify
CC compounds that modify the degradation of HMG-CoA reductase independently
CC of the beneficial LDL receptor control axis. The nucleic acid molecules
CC can be used as molecular probes for the isolation of homologous nucleic
CC acid molecules and for the detection of HRD nucleic acid molecules in
CC yeast.
XX
SQ Sequence 551 AA;

Query Match 36.5%; Score 107; DB 18; Length 551;
Best Local Similarity 37.3%; Pred. No. 3e-05;
Matches 22; Conservative 6; Mismatches 19; Indels 12; Gaps 2;

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Db     347 niciicmdelihspnqqtwknknkkpkrlpcghilhlsclknwmer--sqtcpicrlpv 403
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RESULT 29
AAG38657
ID AAG38657 standard; Protein; 316 AA.
XX
AC AAG38657;
XX
DT 18-OCT-2000 (first entry)
XX
DE Arabidopsis thaliana protein fragment SEQ ID NO: 47723.
XX
KW Protein identification; signal transduction pathway; metabolic pathway;
KW hybridisation assay; genetic mapping; gene expression control; promoter;
KW termination sequence.
XX
OS Arabidopsis thaliana.
XX
PN EP1033405-A2.
XX
PD 06-SEP-2000.
XX
PF 25-FEB-2000; 2000EP-0301439.
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PR 25-FEB-1999; 99US-0121825.
PR 05-MAR-1999; 99US-0123180.
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KW termination sequence.
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KW hybridisation assay; genetic mapping; gene expression control; promoter;
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Query Match 36.2%; Score 106; DB 21; Length 349;
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DT 17-OCT-2000 (first entry)
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KW Protein identification; signal transduction pathway; metabolic pathway;
KW hybridisation assay; genetic mapping; gene expression control; promoter;
KW termination sequence.
XX
OS Arabidopsis thaliana.
XX
PN EP1033405-A2.
XX
PD 06-SEP-2000.
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PF 25-FEB-2000; 2000EP-0301439.
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Query Match 36.2%; Score 106; DB 21; Length 351;
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KW Protein identification; signal transduction pathway; metabolic pathway;
KW hybridisation assay; genetic mapping; gene expression control; promoter;
KW termination sequence.
XX
OS Arabidopsis thaliana.
XX
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Query Match 36.2%; Score 106; DB 21; Length 364;

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DT   18-OCT-2000  (first entry)
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KW   Protein identification; signal transduction pathway; metabolic pathway;
KW   hybridisation assay; genetic mapping; gene expression control; promoter;
KW   termination sequence.
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PR 26-AUG-1999; 99US-0150884.
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Query Match 36.2%; Score 106; DB 21; Length 380;
Best Local Similarity 36.4%; Pred. No. 2.7e-05;
Matches 16; Conservative 8; Mismatches 18; Indels 2; Gaps 1;

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RESULT 37
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AC AAG08028;
XX
DT 17-OCT-2000 (first entry)
XX
DE Arabidopsis thaliana protein fragment SEQ ID NO: 5406.
XX
KW Protein identification; signal transduction pathway; metabolic pathway;
KW hybridisation assay; genetic mapping; gene expression control; promoter;
KW termination sequence.
XX
OS Arabidopsis thaliana.
XX
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XX
PD 06-SEP-2000.
XX
PF 25-FEB-2000; 2000EP-0301439.
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Query Match 36.2%; Score 106; DB 21; Length 386;
Best Local Similarity 36.4%; Pred. No. 2.7e-05;
Matches 16; Conservative 8; Mismatches 18; Indels 2; Gaps 1;

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Db 338 ciicqdeyeakdevgelrcghrfhidcvkqwl--vrknscpvck 379

RESULT 38
AAB36644
ID AAB36644 standard; Protein; 405 AA.
XX
AC AAB36644;
XX
DT 14-MAR-2001 (first entry)
XX
DE Oryza sativa var. nipponbare Tos17 protein sequence SEQ ID NO:2.
XX
KW Rice; Tos17; ethylene synthesis; regulation; genetically modified plant;
KW increased side-root elongation; crown-water resistance;
KW improved fruit quality retention; improved flower quality retention.
XX
OS Oryza sativa.
XX
PN WO200071721-A1.
XX
PD 30-NOV-2000.
XX

PF 25-MAY-1999; 99WO-JP02732.
XX
PR 25-MAY-1999; 99WO-JP02732.
XX
PA (NORQ) JAPAN MIN AGRIC FORESTRY & FISHERIES.
PA (BIOO-) BIO-ORIENTED TECHNOLOGY RES ADVANCEMENT.
XX
PI Hirochika H, Abe K;
XX
DR WPI; 2001-061354/07.
DR N-PSDB; AAC88125.
XX
PT Rice-originated oligonucleotides encoding gene regulating ethylene
PT synthesis in plant, for producing transformants and genetically
PT modified plants with promoted side-root elongation and crown-water
PT resistance -
XX
PS Claim 1; Fig 1; 35pp; Japanese.
XX
CC The present invention describes oligonucleotides encoding a gene
CC producing a product capable of regulating ethylene synthesis. Also
CC described are: (1) a vector containing the oligonucleotides which can
CC be ligated to operate the control sequence; (2) a plant transformed
CC with the vector; and (3) a method for regulating ethylene synthesis
CC in a plant by introducing the oligonucleotides into it. The gene can
CC be used in producing transformants and genetically modified plants.
CC Plants produced by the method have increased side-root elongation,
CC crown-water resistance and improved fruit and flower quality retention.
CC The present sequence represents the specifically claimed Tos17 isolated
CC from Oryza sativa var. nipponbare, which has ethylene synthesis
CC regulating activity.
XX
SQ Sequence 405 AA;

Query Match 36.2%; Score 106; DB 22; Length 405;
Best Local Similarity 32.0%; Pred. No. 2.8e-05;
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RESULT 39
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ID AAG32709 standard; Protein; 83 AA.
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AC AAG32709;
XX
DT 17-OCT-2000 (first entry)
XX
DE Zea mays protein fragment SEQ ID NO: 39512.
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KW Protein identification; signal transduction pathway; metabolic pathway;
KW hybridisation assay; genetic mapping; gene expression control; promoter;
KW termination sequence; corn.
XX
OS Zea mays subsp. mays.
XX
PN EP1033405-A2.
XX
PD 06-SEP-2000.
XX
PF 25-FEB-2000; 2000EP-0301439.
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Query Match 35.8%; Score 105; DB 21; Length 93;
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